



DOC221319-K

Vaisala Ultrasonic Wind Sensor

WMT700

	WMT 7 0													
1	Measurement range													
	40 m/s WMT701	1												
	65 m/s WMT702	2												
	75 m/s WMT703	3												
	90 m/s WMT704	4												
	40 m/s + Accredited Wind Calibration (WMT701)	A												
	65 m/s + Accredited Wind Calibration (WMT702)	B												
	75 m/s + Accredited Wind Calibration (WMT703)	C												
	90 m/s + Accredited Wind Calibration (WMT704)	D												
2	Temperature range													
	-10...+60 C	A												
	-40...+60 C	B												
	-55...+70 C	C												
3	Heating													
	Non-heated version			1										
	Heated transducers			2										
	Heated transducers and arms			3										
	Heated transducers, arms and body			4										
4	Digital communication interface													
	RS-485 isolated				A									
	RS-422 isolated				B									
	RS-232 isolated				C									
	SDI-12 isolated				D									
5	Digital communication profile													
	WMT70 - poll mode (default)	9600b, 8, N, 1 Polled			0									
	WS425 - ASCII	2400b, 8, N, 1 Polled			1									
	WS425 - NMEA Extended (v 0183)	9600b, 8, N, 1 Auto send 1/s			2									
	WS425 - SDI-12 (v 1.3)	1200b, 7, E, 1 Polled			3									
	WS425 - ASOS	2400b, 8, N, 1 Polled			4									
	ROSA - MES12	9600b, 8, N, 1 Polled			5									
	AWS520 - NMEA Extended (v 0183)	4800b, 8, N, 1 Auto send 1/s			8									
	Low power mode for AWS310	9600b, 8, N, 1 Polled			9									
	MARINE 1 (v 0183)	4800b, 8, N, 1 Auto send 1/s			A									
6	Digital communication units													
	m/s				A									
	knots				B									
	mph				C									
	km/h				D									
7	Analog output signals for wind speed channel													
	Disabled								0					
	Voltage output	100 mV/m/s							1					
	Current output	4...20 mA	(0...Range m/s)						3					
	Current output	0.2 mA/m/s							4					
	Push-Pull frequency output	10 Hz/m/s							6					
	WS425 - voltage output	8 mV/mpg							7					
	WS425 - frequency output (Push-Pull)	5 Hz/mpg							8					
	Pull up frequency output (PNP)	10 Hz/m/s							A					
	Pull down frequency output (NPN)	10 Hz/m/s							B					
8	Analog output signals for wind direction channel													
	Disabled								0					
	Voltage output	20 mV/Deg							A					
	Current output	50 uA/Deg							D					
	Current output 4...20 mA	44.444 uA/Deg							E					
	Potentiometer output (WS425)	0...Vref (Vref = external reference voltage from system)							F					
9	Cable													
	None											1		
	Cable 2 m, cable connector, open leads on one end					WMT70Cable1						2		
	Cable 10 m, cable connector, open leads on one end					WMT70Cable2						3		
	MAWS cable 10 m					WMT70Cable3						4		
	AWS520 cable 10 m, shield connected to PE pin					WMT70Cable4						5		
	Adapter cable for WS425 serial					WMT70Cable5						6		
	Adapter cable for WS425 analog frequency output					WMT70Cable6						7		
	RS485 Cable 2 m, cable connector, open leads on one end					WMT70Cable8						8		
	RS485 Cable 10 m, cable connector, open leads on one end					WMT70Cable9						9		
	Adapter cable for WS425 analog voltage output					WMT70Cable7						A		
	AWS520 cable 10 m, shield not connected to PE pin					WMT70Cable10						B		
	ROSA analog cable 10 m, cable connector, open leads on one end					WMT70Cable11						C		
	Junction Box with Cable 2meters					WMT70Cable12						D		
	Cable 15 m, cable connector, open leads on one end					WMT70Cable13						E		
	Cable 26 m, cable connector, open leads on one end					WMT70Cable14						F		
10	Mounting adapter													
	Adapter 228869 only					Standard adapter, no fix						A		
	Adapter 228869 with WMT70FIX70 (suitable also for inverted mounting)					Standard adapter with general purpose fix						B		
	Adapter 228869 with WMT700FIX60-POM					Standard adapter with plastic fix for 60 mm pole						C		
	Adapter 228869 with WMT700FIX60-RST					Standard adapter with stainless steel fix for 60 mm pole						D		
	Adapter 228777 only (used for old WS425 FIX30/60)					WS425 compatible adapter, no fix						E		
	Adapter 228777 with WS425FIX60					WS425 compatible adapter with WS425FIX60						F		
	Adapter 228869 with ASM212140 (suitable for 4258057 mounting)					ASOS mounting adapter						G		
11	Power - Reserved for furture purposes													
	None												1	
12	Accessories													
	None													A
	Bird cage					WMT70BirdKit								B
13	Manual													
	None													1
	English													2
	Japanese													3
	Chinese													4
	Russian													5
	French													7
	Spanish													8

For freezing conditions select appropriate combination of heating and temperature ranges.

Accessories		
Tool	Verifier	WMT70Verifier
	Cable Tightener Tool	237888SP
Bird	Bird cage	WMT70BirdKit
	Bird perch	WS425BirdPerch
Cable	Cable connector	WMT70Conn
	Cable 2 m, cable connector, open leads on one end	227567SP
	Cable 10 m, cable connector, open leads on one end	227568SP
	Cable 15 m, cable connector, open leads on one end	237890SP
	Cable 26 m, cable connector, open leads on one end	237889SP

	RS485 Cable 2 m, cable connector, open leads on one end	228259SP
	RS485 Cable 10 m, cable connector, open leads on one end	228260SP
	MAWS cable 10 m	227565SP
	AWS520 cable 10 m, shield connected to PE pin	229807SP
	AWS520 cable 10 m, shield not connected to PE pin	227566SP
	ROSA analog cable 10 m, cable connector, open leads on one end	231425SP
	Adapter cable for WS425 serial	227569SP
	Adapter cable for WS425 analog frequency output	227570SP
	Adapter cable for WS425 analog voltage output	227571SP
	Junction Box with Cable 2meters	ASM210719SP
	WMT700 USB service cable	240855
	Universal USB service cable with screw terminal for RS485 or RS232	240884
Mounting	WMT700 Mounting Accessories:	
	Adapter for FIX70	228869
	Fix70 (suitable also for inverted mounting)	WMT70FixSP
	Mounting adapter 60mm POM	WMT700FIX60-POMSP
	Mounting adapter 60mm RST	WMT700FIX60-RSTSP
	Cross-arm (40x40x850mm)	WMT70CROSSARM
	Mounting adapter between 228869 and 4258057	ASM212140
	WS425 Mounting Accessories:	
	Adapter for old WS425 FIX30/60	228777
	FIX30	WS425Fix30
	FIX60	WS425Fix60
	Sensor support arm for 60mm pole (655mm with integrated fix for item 228777)	WAC425